




Sedna Mesh Main Smart Water Valve

Compatible accessories

 Smart water leak detectors


 Secondary water valve

 Smart dimmer and light switch

 Smart plugs

 Flow sensor

 Multicontroller

 Smart electrical load controller



■ FEATURES

- Automatic valve closure as soon as a water leak is detected by one of the detectors*
- Possibility to back-up the device with lithium batteries (not included) for ongoing operation (up to 48 hours)
- Self-testing system ensuring proper operation at all times throughout the life of the device
- 20 water leak detectors or accessories can be controlled with Sinopé's smart water valve
- Possibility to open and close the valve manually
- Removable actuator allowing the replacement of parts without any further modification to the plumbing
- Communicates with the GT4220WF-M gateway and other main Sedna Mesh valves to provide enhanced protection and seamless signal repetition throughout the building

* Requires a water leak detector or a Sinopé flow sensor. Depending on the plumbing of the water inlet, additional parts may be required (not included).

■ COMMUNICATION

Communication with the Sedna Mesh gateway (GT4220WF-M)*

Protocol: Wi-Fi

Standard: IEEE 802.11 b/g/n

Frequency: 2.4 GHz

Communication between Sedna Mesh main valves and the GT4220WF-M gateway is secured by WPA2, and communication between the GT4220WF-M and the server is secured by TLS 1.2.

Communication with detectors and accessories

Protocol: Zigbee 3.0

Frequency: 2.4 GHz

Transmission power: +20 dBm

Receiver sensitivity: -108 dBm

* The gateway deploys a Wi-Fi network dedicated to Sedna Mesh water damage protection valves. This network is mesh-based, which means that the valves will relay it to each other.

■ COMPOSITION

The Sedna Mesh main smart water valve consists of a main valve actuator [ACT4220WF-M-UPS] and a compatible ball valve [see models below].

■ COMPATIBILITIES

Select from these 3 ball valve options:

- NPT Ball Valve - 3/4" [BV4220]
- NPT Ball Valve - 1" [BV4221]
- PEX Ready Ball Valve - 3/4" [BV4220-P01]

■ STANDARDS

Standard Valve (NPT)

Complies with CSA B125.3-12 Plumbing fittings

Valve body tested EU RoHS 2 [Directive 2011/65 / EU]

Complies with NSF/ANSI 61 Standard

PEX Ready Valve

Complies with NSF/ANSI 61 Standard

■ TRANSMITTER MODULE

IC: 22394-ZBM1501



Sinopé Smart Systems management platform

- Sends texts and emails if a water leak is detected, if the batteries are low or if there is a risk of freezing
- Constant monitoring of the Sedna systems installed in the building
- Monitoring the battery status of the water leak detectors
- Centralized security and access management
- Centralized management of condo units
- Programmable automations
- Exporting and printing activity logs



Neviweb app for users

- Remote access and control of the main water inlet through your smartphone or tablet*
- Receive alerts by email or push notification when there is a detection of a leak, a risk of frost or when batteries are low**
- See the batteries' status directly in the app

* Remote access requires a permanent Internet connection and the Neviweb app.

**Requires a Sinopé smart valve, a permanent Internet connection and the Neviweb app available on the App Store and Google Play.

■ TECHNICAL SPECIFICATIONS

	NPT Standard Valve	PEX Ready Valve
Valve body	Stainless steel, lead-free	Brass and nickel plating, lead-free
Actuator's base	Fiberglass reinforced	Fiberglass reinforced
Ball valve	Full port valve	Full port valve
Maximum pressure	145 PSI	150 PSI
Maximum torque	2.5 N.m.	1.0 N.m.
System self-testing frequency	Monthly	Monthly

Power supply: 5V / 5W (included)

Backup power supply: Uninterruptible power supply 5V - 12V included [ACUPS-01]* and/or 4 AAA lithium batteries not included

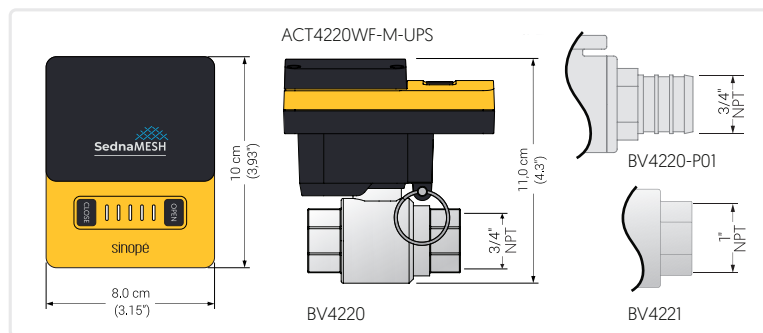
Operating temperature: 0 °C to 40 °C [32 °F to 104 °F]

Maximum water temperature: 85 °C [185 °F]

Storage: -20 °C to 50 °C [-4 °F to 122 °F]

3-year warranty

Indoor installation only *Contact your Sinopé representative for more information on the uninterruptible power supply [ACUPS-01].



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